

-29

-20-

7

1

5

07

15

20

25

30

35

40

45

59

A

A

Figure 1a

44

A

A

CCT AGA AAT CCA AAG GCT TGT ACC TTA AAC TGT GAT CCA AGA ATT GCC	306
Pro Arg Asn Pro Lys Ala Cys Thr Leu Asn Cys Asp Pro Arg Ile Ala	70
55	60
65	75
80	85
TAT GGA GTT TGC CCG CGT TCA GAA GAA AAG AAT GAT CGG ATA TGC	354
Tyr Gly Val Cys Pro Arg Ser Glu Glu Lys Lys Asn Asp Arg Ile Cys	
90	95
ACC AAC TGT TGC GCA GGC ACG AAG GGT TGT AAG TAC TTC AGT GAT GAT	402
Thr Asn Cys Cys Ala Gly Thr Lys Gly Cys Lys Tyr Phe Ser Asp Asp	100
105	110
115	120
GGA ACT TTT GTT TGT GAA GAG TCT GAT CCT AGA AAT CCA AAG GCT	450
Gly Thr Phe Val Cys Glu Gly Glu Ser Asp Pro Arg Asn Pro Lys Ala	
120	125
130	135
TGT CCT CGG AAT TGC GAT CCA AGA ATT GCC TAT GGG ATT TGC CCA CTT	498
Cys Pro Arg Asn Cys Asp Pro Arg Ile Ala Tyr Gly Ile Cys Pro Leu	
140	145
150	155
GCA GAA GAA AAG AAG AAT GAT CGG ATA TGC ACC AAC TGT TGC GCA GGC	546
Ala Glu Glu Lys Lys Asn Asp Arg Ile Cys Thr Asn Cys Cys Ala Gly	
160	165
170	175

B

B

Figure 1b

B_____

AAA AAG GGT TGT AAG TAC TTT AGT GAT GAT GGA ACT TTT GTT TGT GAA 594
 Lys Lys Gly Cys Lys Tyr TGT Phe Ser Asp Asp Gly Thr Phe Val Cys Glu
 155 160 165

GGA GAG TCT GAT CCT AAA AAT CCA AAG GCC TGT CCT CGG AAT TGT GAT 642
 Gly Gly Ser Asp Pro Lys Asn Pro Lys Ala Cys Pro Arg Asn Cys Asp
 170 175 180

GGA AGA ATT GCC TAT GGG ATT TGC CCA CTT TCA GAA GAA AAG AAG AAT 690
 Gly Arg Ile Ala Tyr Gly Ile Cys Pro Leu Ser Glu Glu Lys Lys Asn
 185 190 195

GAT CGG ATA TGC ACC AAC TGC TGC GCA GGC AAA AAG GGT TGT AAG TAC 738
 Asp Arg Ile Cys Thr Asn Cys Cys Ala Gly Lys Lys Gly Cys Lys Tyr
 200 205 210

TTT AGT GAT GAT GGA ACT TTT GTT TGT GAA GGA GAG TCT GAT CCT AAA 786
 Phe Ser Asp Asp Gly Thr Phe Val Cys Glu Gly Glu Ser Asp Pro Lys
 215 220 225 230

AAT CCA AAG GCT TGT CCT CGG AAT TGT GAT GGA AGA ATT GCC TAT GGG 834
 Asn Pro Lys Ala Cys Pro Arg Asn Cys Asp Gly Arg Ile Ala Tyr Gly
 235 240 245

_____ **C**

Figure 1c

C

ATT TGC CCA CTT TCA GAA GAA AAG AAG AAT GAT CGG ATA TGC ACA AAC 882
Ile Cys Pro Leu Ser Glu Glu Lys Lys Asn Asp Arg Ile Cys Thr Asn
250 255 260

TGT TGC GCA GGC AAA AAG GGC TGT AAG TAC TTT AGT GAT GAT GGA ACT 930
Cys Cys Ala Gly Lys Lys Gly Cys Lys Tyr Phe Ser Asp Asp Gly Thr
265 270 275

TTT GTT TGT GAA GGA GAG TCT GAT CCT AGA AAT CCA AAG GCC TGT CCT 978
Phe Val Cys Glu Gly Glu Ser Asp Pro Arg Asn Pro Lys Als Cys Pro
280 285 290

CGG AAT TGT GAT GGA AGA ATT GCC TAT GGC CCA ATT TGC CCA CTT TCA GAA 1026
Arg Asn Cys Asp Gly Arg Ile Ala Tyr Gly Ile Cys Pro Leu Ser Glu
295 300 305 310

GAA AAG AAG AAT GAT CGG ATA TGC ACC AAT TGT TGC GCA GGC AAG AAG 1074
Glu Lys Lys Asn Asp Arg Ile Cys Thr Asn Cys Cys Ala Gly Lys Lys
315 320 325

GGC TGT AAG TAC TTT AGT GAT GAT GGA ACT TTT ATT TGT GAA GGA GAA 1122
Gly Cys Lys Tyr Phe Ser Asp Asp Gly Thr Phe Ile Cys Glu Gly Glu
330 335 340

D

Figure 1d

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D **D**

TCT GAA TAT GCC AGC AAA GTG GAT GAA TAT GTT GGT GAA GTG GAG AAT 1170
Aer Glu Tyr Ala Ser Lys Val Asp Glu Tyr Val Gly Glu Val Glu Asn 355
345 350 355

GAT CTC CAG AAG TCT AAG GTT GCT GTT TCC TAAGTCCTAA CTAATAATAT 1220
Asp Leu Gln Lys Ser Lys Val Ala Val Ser 365
360 365

GTAGTCTATG TATGAAACAA AGGCATGCCA ATATGCTCTG TCTTGCCCTGT AATCTGTAAT 1280

ATGGTAGTGG AGCTTTTCCA CTGCCCTGTTT AATAAGAAAT GGAGCACTAG TTTGTTTTAG 1340

TTAAAAA AAAA AAAAAA 1360

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Figure 1e

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10µg

St	St	Ov	Po	Pe	Se	L	L4	L24	Nt	Ns	Na
10µg	5µg										hs

2.0

0.5



Figure 2

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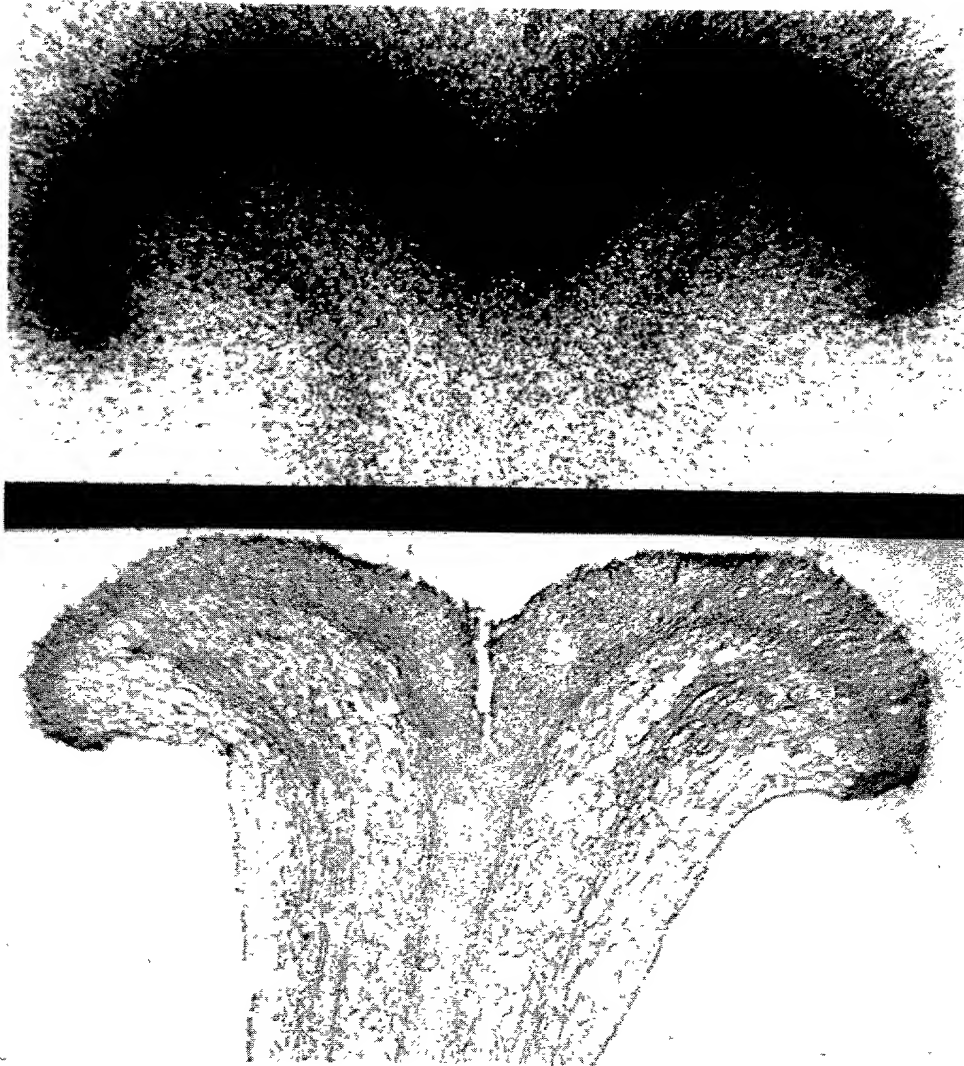


Figure 3

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EcoRI HindIII

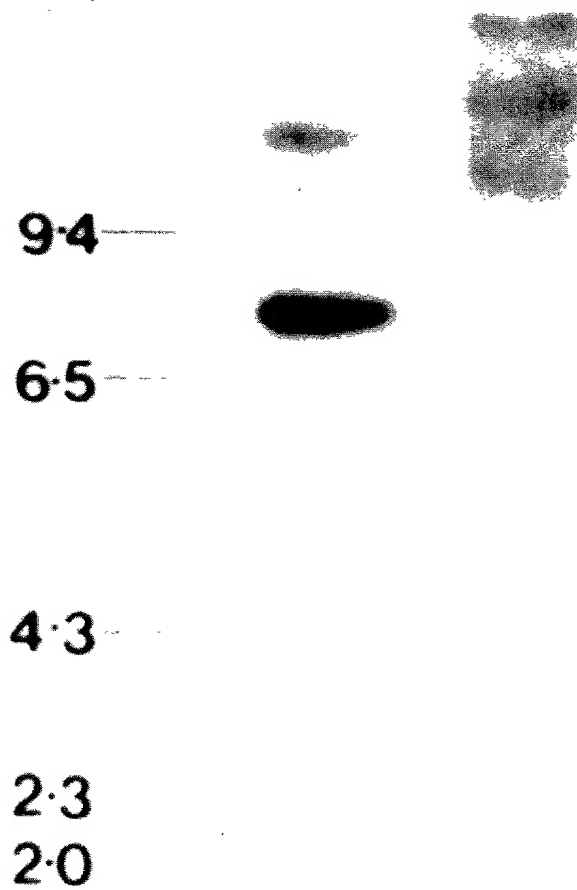


Figure 4

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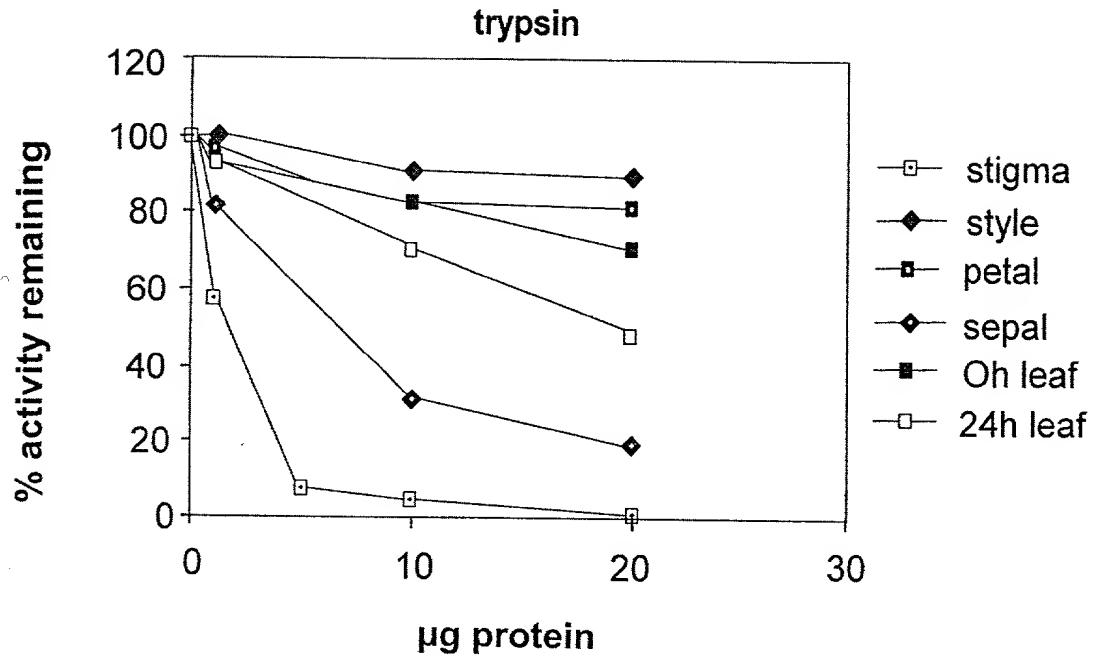


Figure 5a

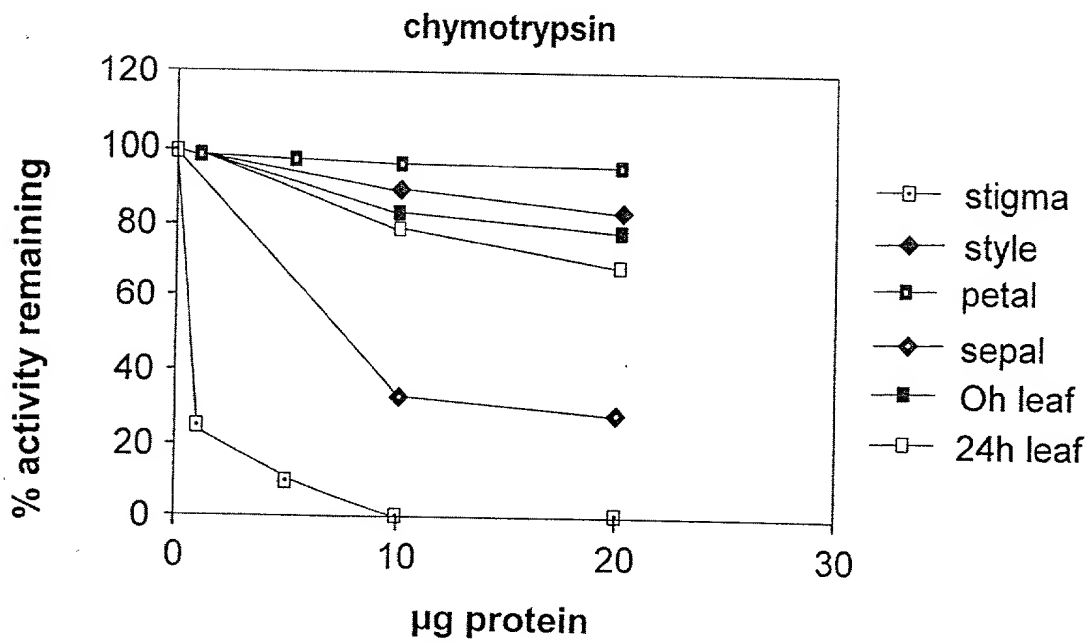


Figure 5b

Figure 6a

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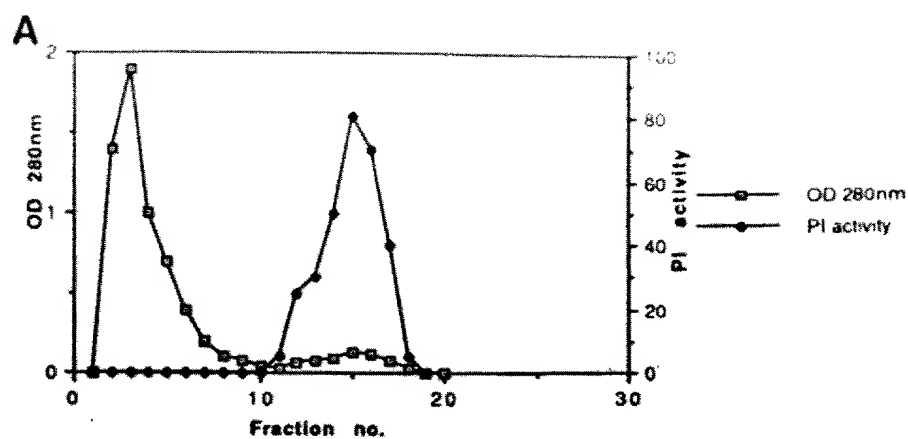


Figure 6b

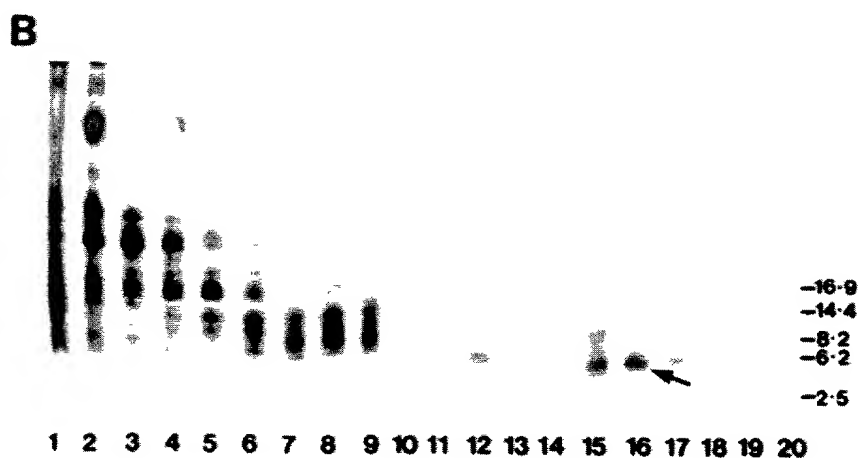
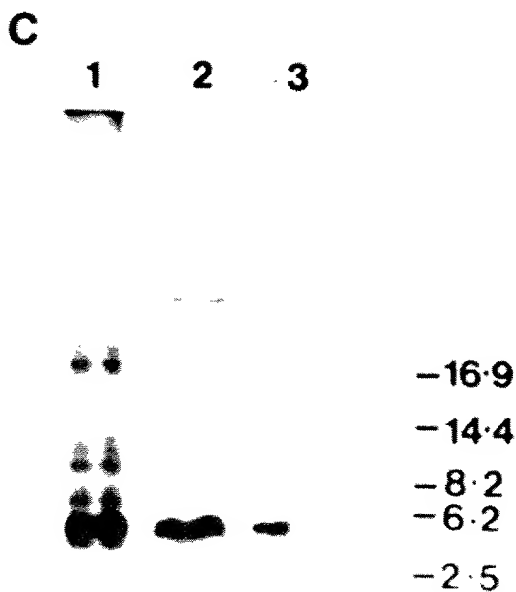


Figure 6c



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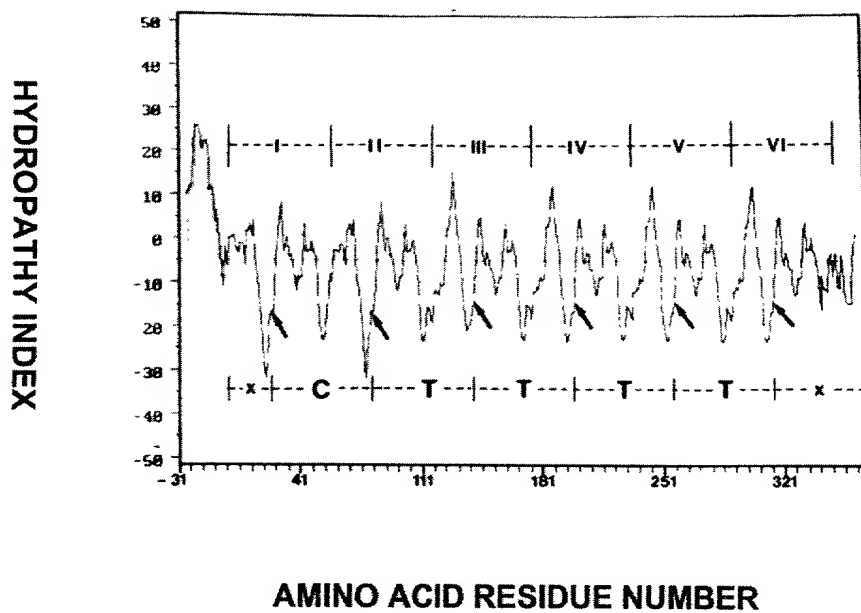


Figure 7a

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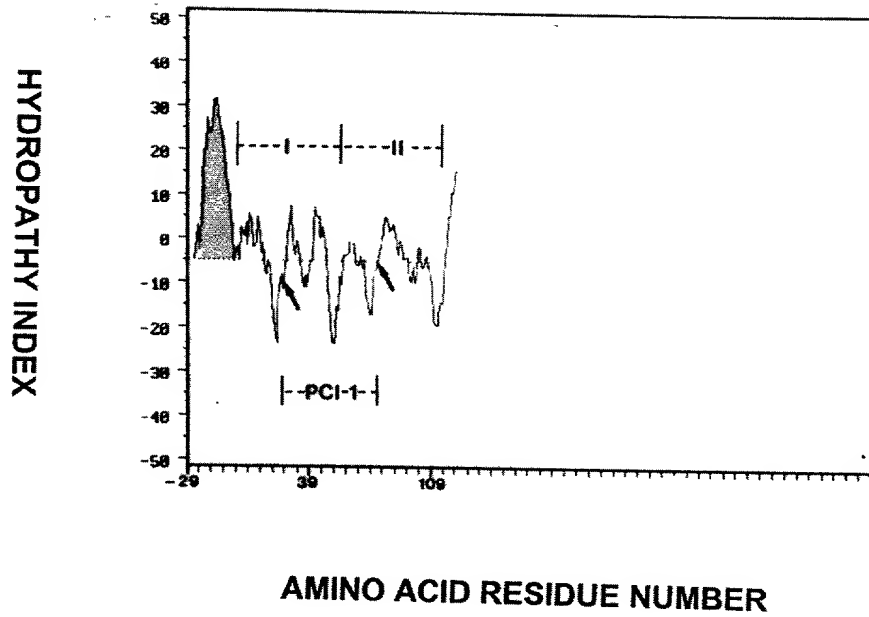
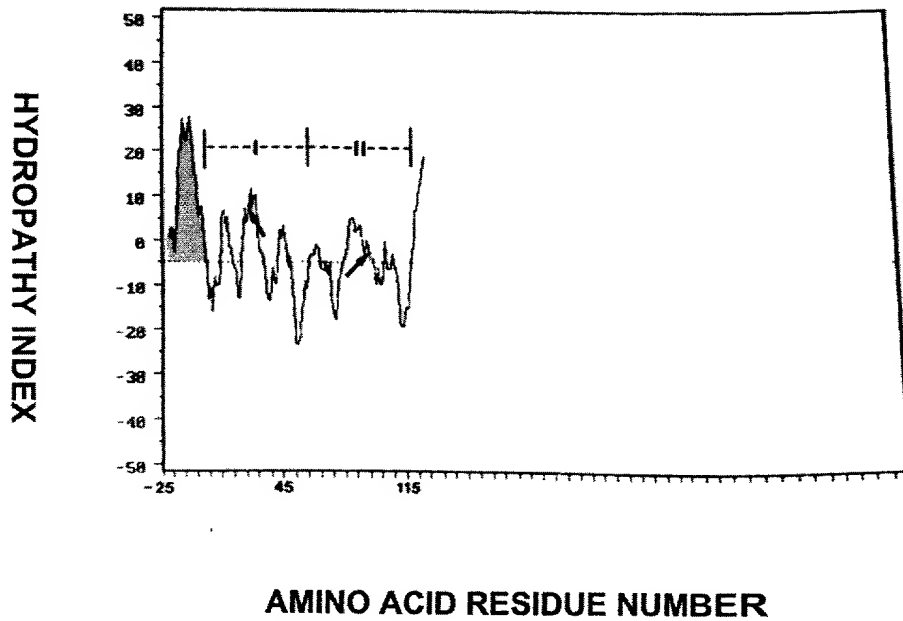


Figure 7 b

**Figure 7c**

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Figure 8a



Figure 8b

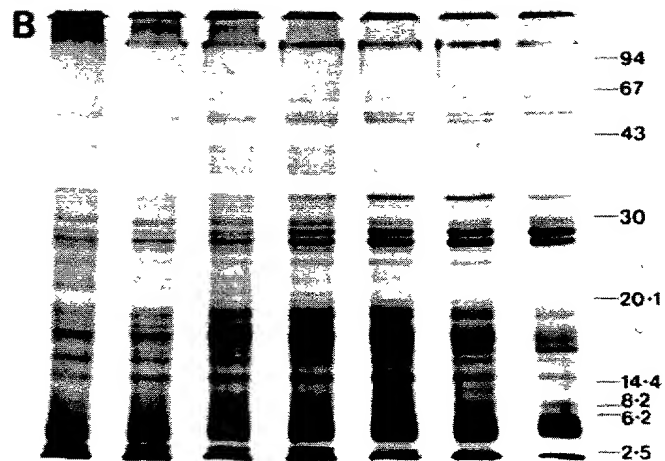
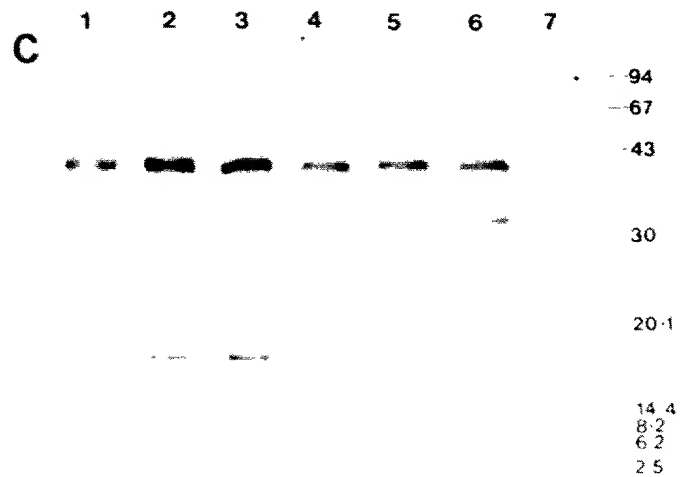


Figure 8c



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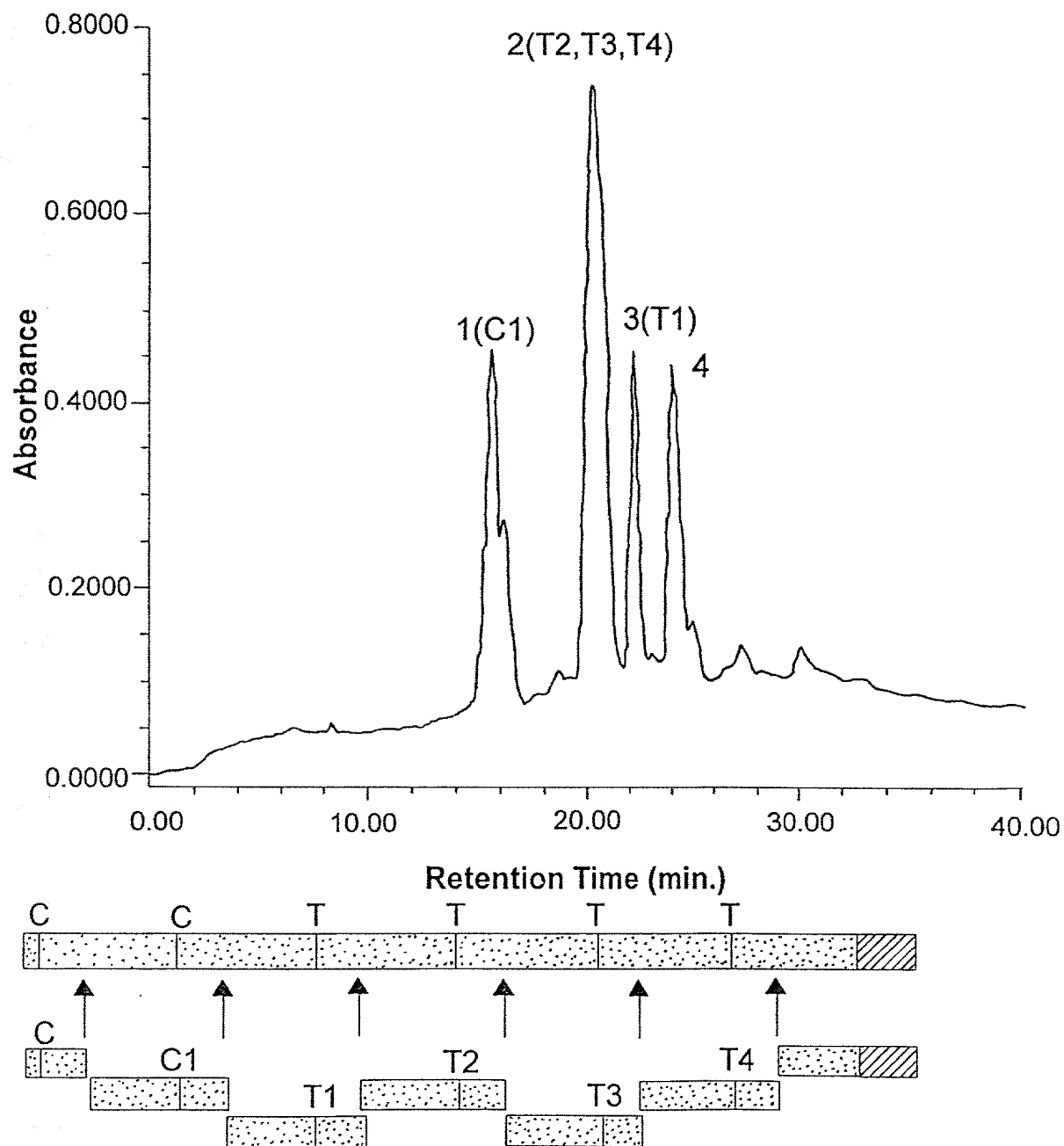


Figure 9a

C1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACTLLNCDPRIAYGVCPRS
T1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPRIAYGICPL
T2 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDGRIAYGICPLS
T3 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDGRIAYGICPLS
T4 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDGRIAYGICPLS
1 10 20 30 40 50

Figure 9b

-10 1 10
I C P (R or L) (S or A) E E K K N D R I C T N C C A G (T or K) K G

Figure 10

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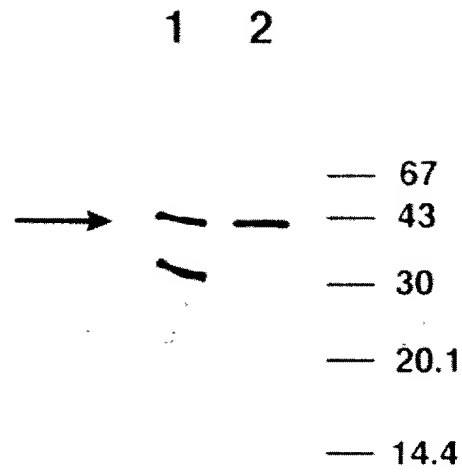


Figure 11 a

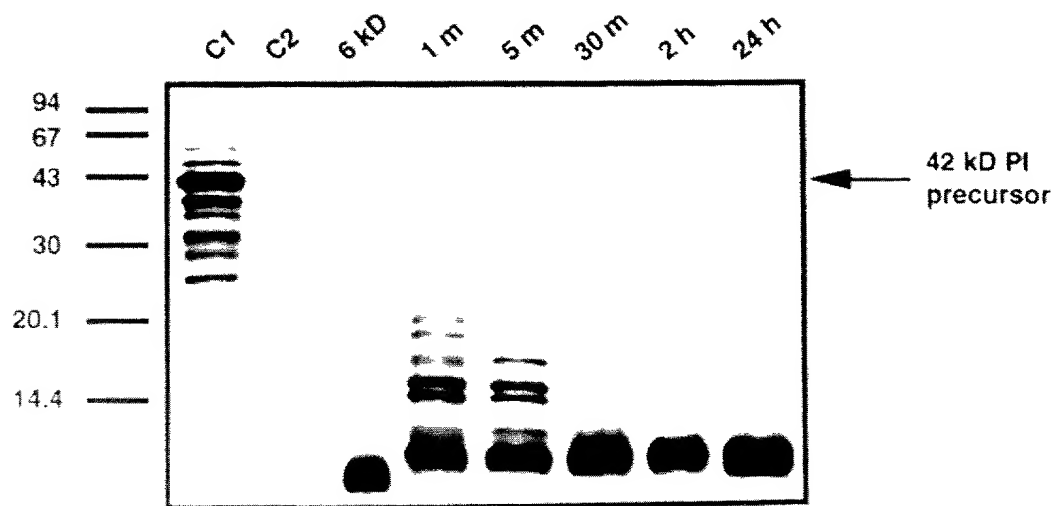


Figure 11 b

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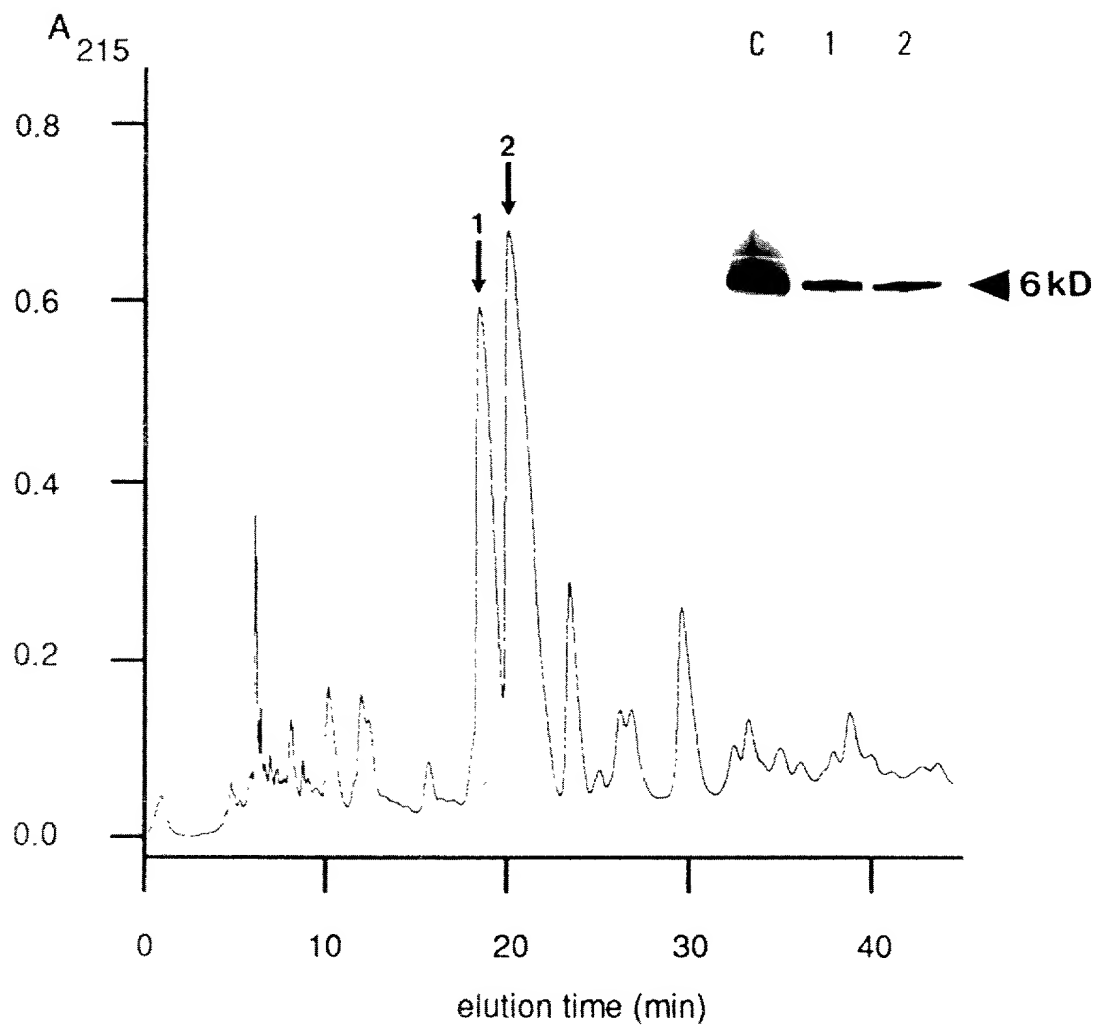


Figure 12

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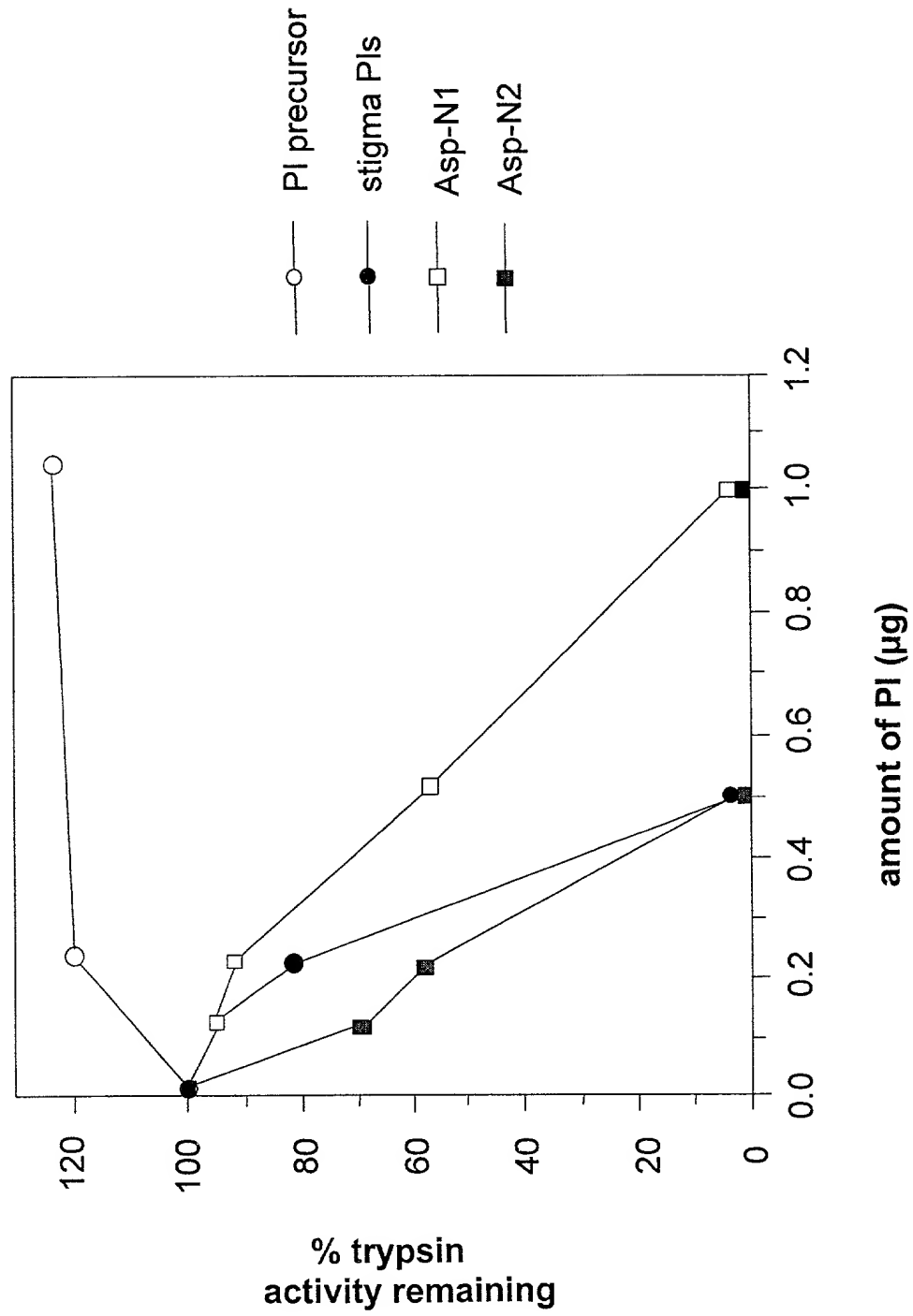
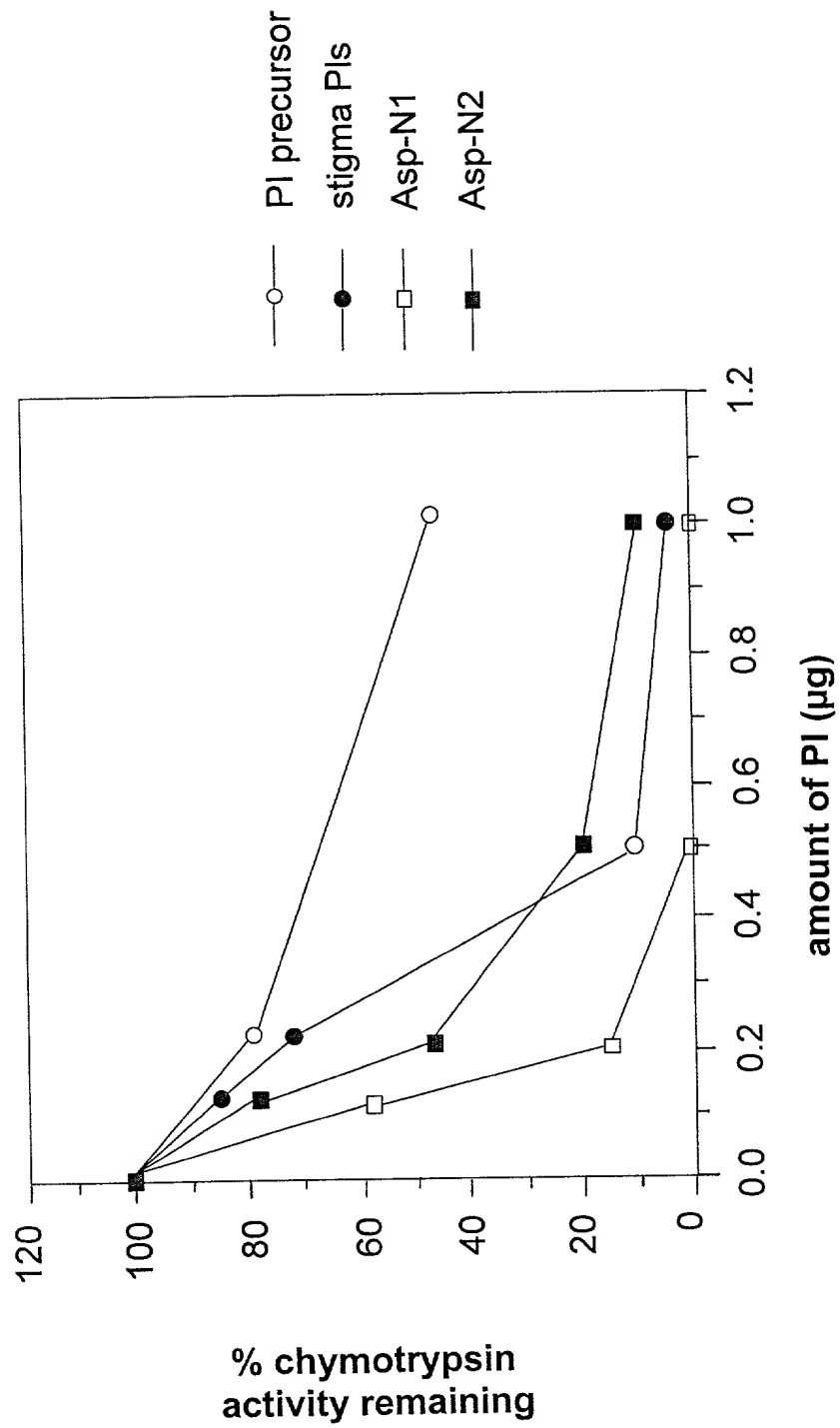


Figure 13a

**Figure 13b**

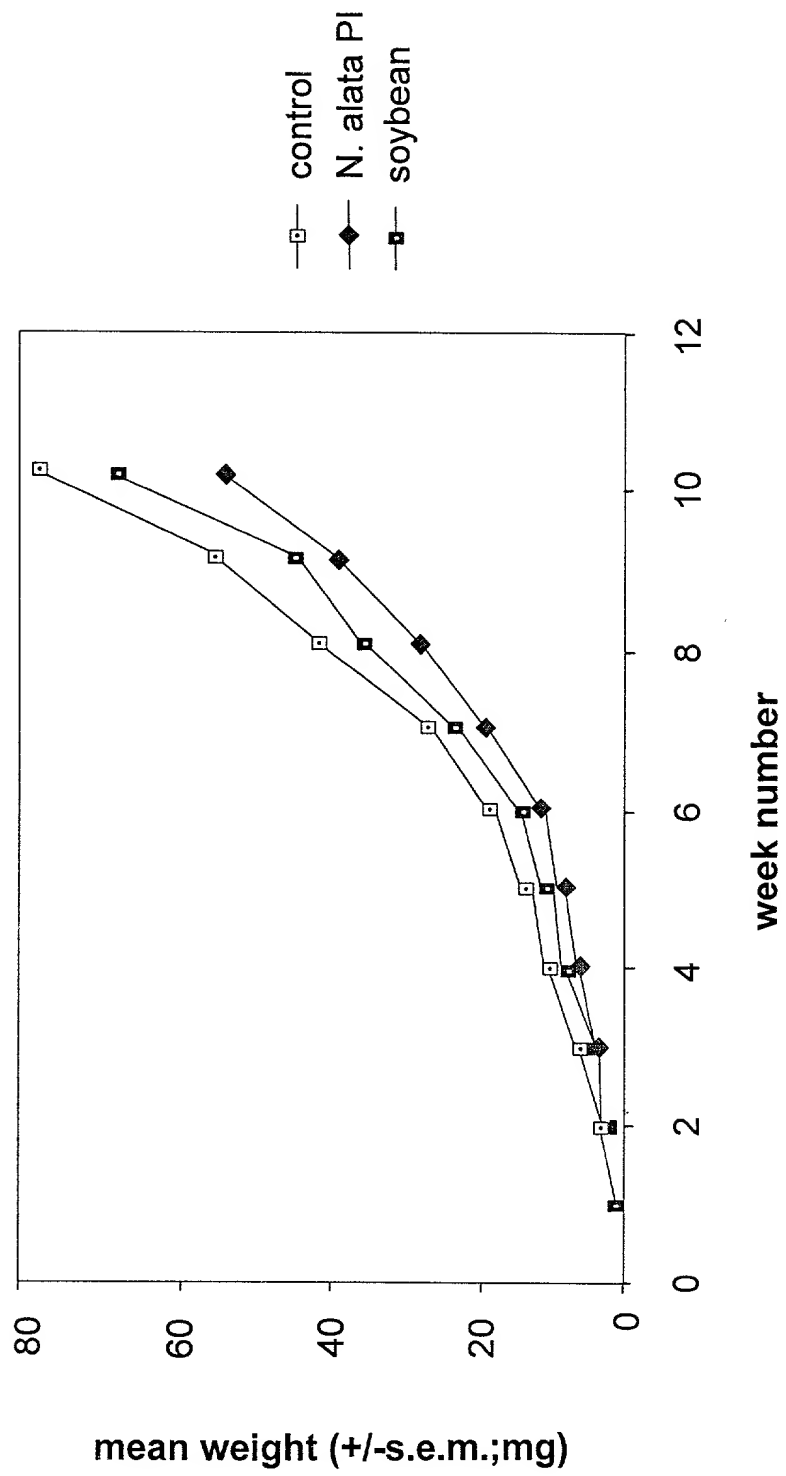


Figure 14